DATA CENTER OPERATIONS BRANCH

NDS OPERATIONS PROCEDURE MANUAL	APLICATIONS SOFTWARE
NO. P-I015	25 January 1984

INSTALLATIONS DATA FILE EXCHANGE 2

SYMBOLIC TITLE: WACALP (IDFEX2)
PROGRAMMER:

STAT

ADMINISTRATIVE-INTERNAL USE ONLY

CLASSIFICATION

DOCUMENT CHANGE REQUEST (DCR)	DCR NO: 0002
	DATE LOGGED: 7/15/83
	DATE CLOSED: 2/4/84

TITLE OPERATIONS MANUAL FOR IDFEXZ   NO.

INITIATOR _____ SECTION ~~XXX~~ APS DATE 7/5/83   (IF NEW, ASSIGNED BY TS) STAT

TECHNICAL MONITOR _____ SECTION _____ DATE _____ PHONE _____

SYSTEM AFFECTED: ☒ 1100/OPS ☒ 1100/M&A ___ COINS ___ RTMS ___ OTHER

BRANCH CHIEF SIGNATURE _____ DATE 7/12/83   STAT

INITIATING DOCUMENT NO.: DR # _____ RFC # 495-3 OTHER _____

NEED FOR CHANGE:

NEW SOFTWARE COMPONENT (IDFEXZ) NEEDS TO BE ADDED TO THE SYSTEM TO SATISFY REQUIREMENTS OF RO495-3.

DCOB INTERIM APPROVAL:

C/DCOB _____   DATE 9/8/83   CONCUR ✓   NON-CONCUR   STAT

(SEE DCOB COMMENTS ATTACHED)

CERB:

	DATE	CONCUR	NON-CONCUR	STAT
C/DCOB	25 JAN 84	✓	_____	
C/SB:	25 Jan 84	✓	_____	
C/PB:	25 Jan 84	✓	_____	
		DISAPPROVED _____		
SIGNAT		DATE 1/25/84		

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1.0 SUMMARY

1.1 Purpose

IDFEX2 will extract certain data directly from the IDF and create a tape.

1.2 References

Installations Data File - Magnetic Tape Format, April 1981,   ·STAT
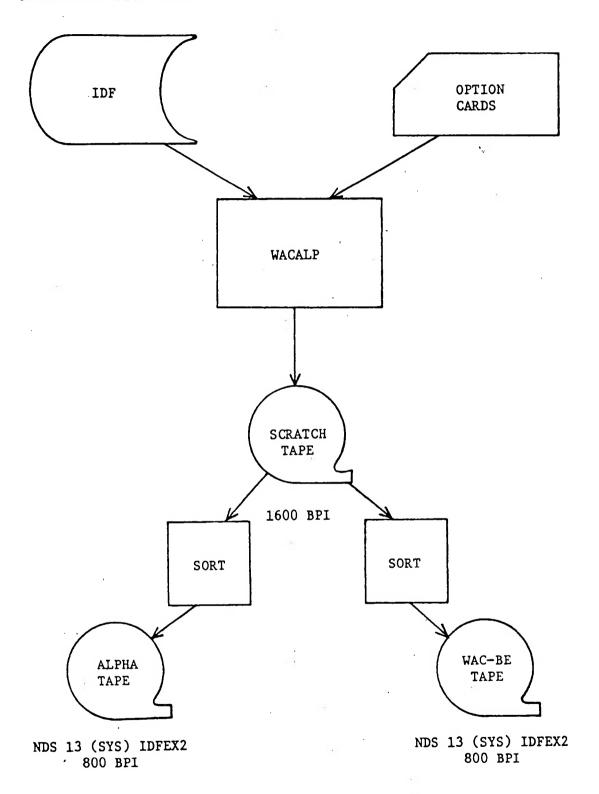N40404.

1.3 Processing

IDFEX2 will extract data directly from the IDF. The requester must specify what records are to be retrieved. One or all can be selected. Also, the user must specify a range of MRN numbers to do the retrieval on. This extracted data is formatted on the requester's tape and sent to the requester.

IDFEX2 provides the capability for the user to specify what type of data is to be extracted. 'M1' and 'KM', 'AIRCRAFT' or both types of data may be selected by the user. There are eight IDF records that the user can specify - TGT-HDR, TGT-COLL, TGT-GEN-REF, TGT-STA-DES, TGT-DEF-SEC, TGT-OB, TGT-PHOT, and TGT-PRFL. These must be specified.

IDFEX2 must be restarted completely; it can be rerun anytime.

The IDFEX2 program is coded in ASCII COBOL and uses DMS for file processing. IDFEX2 creates a scratch tape which is then sorted twice to produce tapes in ALPHA and WAC-BE order.

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2.0 OPERATIONAL FLOW CHART

```
   ┌──────────┐              ┌──────────┐
   │   IDF    │              │  OPTION  │
   │          │              │  CARDS   │
   └──────────┘              └──────────┘
           \                /
            \              /
             ┌──────────┐
             │  WACALP  │
             │          │
             └──────────┘
                  │
                  │
            ┌──────────┐
            │ SCRATCH  │
            │  TAPE    │
            └──────────┘
             /          \
            /  1600 BPI   \
      ┌────────┐       ┌────────┐
      │  SORT  │       │  SORT  │
      └────────┘       └────────┘
          │                 │
      ┌────────┐        ┌────────┐
      │ ALPHA  │        │ WAC-BE │
      │  TAPE  │        │  TAPE  │
      └────────┘        └────────┘
```

NDS 13 (SYS) IDFEX2   NDS 13 (SYS) IDFEX2
    800 BPI   800 BPI

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3.0 COMPUTER RUN PREPARATION

3.1 <u>Program Loading</u>

Type of Program: Batch

Start Keyin: N/A

Run ID: WACALP

DMR ID: IDFHIS

3.2 <u>Final Check Summary</u>

N/A

3.3 <u>Normal Run Instructions</u>

Initiation: Load card deck.

Step by Step:

1. Load card deck.
2. Mount user tape(s) when requested.
3. Label output tapes as indicated.
4. Return tape(s) and listing(s) to requester when job completes.
5. If job errors follow step 4.

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3.3 Normal Run Instructions (Continued)

Messages:

Message	Cause	Operator Action
OPERATOR, ENTER OUTPUT REEL NUMBER OF THIS RUN EX*01234	Program requires tape number.	Enter tape number.

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3.3 Normal Run Instructions (Continued)

Restart: Run job again.

Termination: WACALP FIN on console (Normal termination).
NOTE: WACALP IS THE RUN-ID.

Take-down: N/A

Disposition of Data: Return to requester.

3.4 <u>Abnormal Run Instructions</u>

Messages:

<u>Message</u>	<u>Cause</u>	<u>Operator Action</u>
NO CONTROL CARD IN RUN DECK FOR THIS RUN	User did not insert a data control card in card deck.	Return card deck to requester and request a data control card.
INVALID RANGE ON INPUT CARD	End-range was less than beginning range.	Return card deck to requester and tell them to give the correct MRN range.
RANGE ON INPUT CARD NOT NUMERIC	Range on input card not a numeric ending.	Return card deck to requester and tell them to give the correct MRN range.
EOF REACHED IN IDHISTEX FILE	Abnormal end of file.	Write DR and notify OCO.

TOTAL RECORDS = _____

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3.4 Abnormal Run Instructions (Continued)

Message	Cause	Operator Action
FATAL DATA BASE ERROR RECORD WAS _____ KEY WAS _____ ERROR-STATUS = _____	A fatal data base error.	Write DR and notify OCO.
DATA BASE KEY FOR _____ WAS BAD ERROR STATUS = _____ MRN WAS _____ RECORD-TYPE = _____ PROGRAM CONTINUES	Invalid data base error.	Write DR and notify OCO.
ERROR ON IMPART	DMS error occured while imparting.	Restart run, if error occurs again, write DR and notify OCO.
ERROR ON OPEN FOR RETRIEVAL	DMS error occured while opening.	Restart run, if error occurs again, write DR and notify OCO.
NO IDFHISTEX TAPE	Program error trying to read/write to output tape.	Write DR and notify OCO.
REEL NUMBER WAS NOT A NUMERIC ENTRY PLS REENTER	Operator entered an illegal output reel number.	Enter correctly
REEL NUMBER WAS SPACES PLEASE REENTER	Operator entered spaces or zeros for output reel number.	Enter correctly
UNABLE TO LOCATE A TGT-HDR RECORD WITH MRN _____	Program error	Write DR and notify OCO.
INVALID KEY ON READ	Program error	Write DR and notify OCO.
INVALID KEY ON WRITE	Program error	Write DR and notify OCO.
ERROR SORT COUNTS NOT EQUAL SORT IN = _____ SORT OUT = _____	Program error	Write DR and notify OCO.

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3.4 Abnormal Run Instructions (Continued)

Message	Cause	Operator Action
ILLEGAL DATA BASE KEY FOR _____ ERROR STATUS = _____ MRN NUMBER WAS _____ RECORD TYPE WAS _____ PROCESSING CONTINUES_____	Data base error	Write DR and notify OCO; save printed output for PB rep.

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3.5 Punched Card Input

Description:

Field	Column	Comments
RESTART-OPTION = 'Y' *	1	Indicates program to be restarted
TGT-HDR = 'Y'	3	All TGT-HDR records to be processed
TGT-COLL = 'Y'	4	All TGT-COLL records to be processed
TGT-GEN-REF = 'Y'	5	All TGT-GEN-REF records to be processed
TGT-STA-DES = 'Y'	6	All TGT-STA-DES records to be processed
TGT-DEF-SEC = 'Y'	7	All TGT-DEF-SEC records to be processed
TGT-OB = 'Y'	8	All TGT-OB records to be processed
TGT-PHOT = 'Y'	9	All TGT-PHOT records to be processed
TGT-PRFL = 'Y'	10	All TGT-PRFL records to be processed
PROCESS-OPTION = 'N'	13	Data is to be processed without the mass storage file or input. Range must be specified
DATA-TYPE = 1, 2, 3	16	1 = only Aircraft data to be processed
		2 = only MI and KH data to be processed
* OTHERWISE FIELD LEFT BLANK		3 = all data is to be processed
Beginning Range	19-24	Beginning Range of MRN's
End Range	25-30	Ending Range of MRN's

- Used to process a range of MRNs.
- If Process-Option field is used,
these fields must contain the MRN
number to begin processing and the
MRN number to end processing.
- If Process-Option field is blank,
these fields must also be blank.

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3.5 Punched Card Input (Continued)

Sample Card Deck:

```
" "
"FIN
"MSG PLS SCRATCH HISTAP
"MSG PLS LABEL IDFWAC TAPE
FILEOUT#IDFWAC,UNLD
VOLUME#LARGE
KEY#1,10,S,A,1
BLOCK#50
RSZ#240
LABEL#OMITTED
"SORT
"ASG,T IDFWAC,U9H///////Q,OUTWAC
"MSG,W MOUNT BLANK TAPE FOR OUTPUT ON 800 BPI DRIVE
"MSG WAC-BE SORT IS NOW STARTING
"MSG,W PLEASE LEAVE HISTAP ON SAME DRIVE FOR NEXT INPUT
"REWIND HISTAP
"MSG PLS LABEL IDFALP TAPE
FILEOUT#IDFALP,UNLD
VOLUME#LARGE
KEY#113,38,S,A,1
BLOCK#50
RSZ#240
LABEL#OMITTED
FILEIN#HISTAP,UNLD
FILEIN#HISTAP
"SORT
"ASG,T IDFALP,U9H///////Q,OUTALP
"MSG,W MOUNT BLANK TAPE FOR OUTPUT ON 800 BPI DRIVE
"MSG ALPHA SORT IS NOW STARTING
"MSG,W PLEASE LEAVE HISTAP ON SAME DRIVE FOR NEXT INPUT
"REWIND HISTAP
   YNNNNNNN  N  3   0000001000100
"XQT IDFEX2
"ASG,T HISTAP,U9V,OUTIDF
"MSG,W MOUNT BLANK TAPE FOR OUTPUT ON 1600 BPI DRIVE
"ASG,T XD,F34/0/TRK/3000
"ASG,T XC,F34/0/TRK/3000
"ASG,T XB,F34/0/TRK/3000
"ASG,T XA,F34/0/TRK/3000
"FREE XAU*PS4BS.
"COPY,A XAU*PS4BS.IDFEX2
"ASG,AX XAU*PS4BS.
"MSG,N WARNING:  TWO 800 BPI TAPE DRIVES ARE NEEDED FOR THIS RUN
"RUN WACALP,S33741069/BURKE,XAU
```

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3.5   Punched Card Input (Continued)

Disposition: Return to requestor.

3.6   Magnetic Tape Input

Originator: N/A

Type of Unit: N/A

Standard Tape Label: _____N/A_____
                      (to be inserted by DCOB/OSS)

Label Block File Name: N/A

Density: N/A

Code: N/A

Record and Block Size: N/A

File Sequence: N/A

Source Tape: N/A

Disposition: N/A

Restrictions: N/A

Quantity: N/A

3.7 Magnetic Tape Output

Type of Unit: 9-track tape drive.

Standard Tape Label: N/A (SCRATCH TAPE)
                        (to be inserted by DCOB/OSS)

Label Block File Name: N/A

Density: 1600 BPI

Code: N/A

Record and Block Size: N/A

File Sequence: N/A

Disposition: SCRATCH - Return to Tape Library.

Retention Period: Until job completes successfully.

Restrictions: N/A

Quantity: 1 tape

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3.7.1 Magnetic Tape Output

Type of Unit: 9-track tape drive.

Standard Tape Label: NDS 13 (SYS) IDFEX2 ALPHA
                       (to be inserted by DCOB/OSS)

Label Block File Name: N/A

Density: 800 BPI

Code: ASCII

Record and Block Size: 240 characters/record and 50 records/block.

File Sequence: Sequential

Disposition: Return tapes to requester (ALPHA tape).

Retention Period: 1 year

Restrictions: TSR (may require external tapes per request).

Quantity: 1 tape

3.7.2 Magnetic Tape Output

Type of Unit: 9-track tape drive.

Standard Tape Label: <u>NDS 13 (SYS) IDFEX2 WAC</u>
                        (to be inserted by DCOB/OSS)

Label Block File Name: N/A

Density: 800 BPI

Code: ASCII

Record and Block Size: 240 characters/record and 50 records/block.

File Sequence: Sequential

Disposition: Return tapes to requester (WAC tape).

Retention Period: 1 year

Restrictions: TSR (may require external tapes per request).

Quantity: 1 tape

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3.8 High-Speed Printer Output

Identification: WACALP

Type of Form: 143

Disposition: Return to requester.

4.0 ON-LINE COMPUTER PROCESSING

4.1 Equipment Requirements

Computer: Sperry 1100 Operational System (NDS).

Schema Used: PRODSCHEMA

Restrictions: TSR

Files Accessed: IDF

Files Created/Deleted: Tape output

File Size: N/A

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